Name:

Using Transformations to Graph Functions - Exit Card

Given the function $g(x) = -3\sqrt{-2(x-9)} + 3$

- a) Identify and graph its parent function on the axes provided.
- b) Graph g(x) on the axes provided.
- c) List the transformations you applied to the parent function, in order, to properly plot g(x).
- d) List any invariant points between your two functions.
- e) State the domain and range of f(x) using proper notation.
- f) State the domain and range of g(x) using proper notation.
- g) Determine the equation of the inverse of this function.
- h) Graph the inverse.



